

Reza Sahraei

List of Publications by Year in descending order

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106
papers

4,715
citations

87723

38
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102304

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all docs

107
docs citations

107
times ranked

4674
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimization of the ultrasonic assisted removal of methylene blue by gold nanoparticles loaded on activated carbon using experimental design methodology. <i>Ultrasonics Sonochemistry</i> , 2014, 21, 242-252.	3.8	270
2	A green ultrasonic-assisted liquid-liquid microextraction based on deep eutectic solvent for the HPLC-UV determination of ferulic, caffeic and cinnamic acid from olive, almond, sesame and cinnamon oil. <i>Talanta</i> , 2016, 150, 577-585.	2.9	229
3	Kinetics, thermodynamics and equilibrium evaluation of direct yellow 12 removal by adsorption onto silver nanoparticles loaded activated carbon. <i>Chemical Engineering Journal</i> , 2012, 187, 133-141.	6.6	215
4	Comparison of silver and palladium nanoparticles loaded on activated carbon for efficient removal of Methylene blue: Kinetic and isotherm study of removal process. <i>Powder Technology</i> , 2012, 228, 18-25.	2.1	206
5	Ammonia-free chemical bath deposition of nanocrystalline ZnS thin film buffer layer for solar cells. <i>Thin Solid Films</i> , 2008, 516, 4953-4957.	0.8	204
6	Optimization of the combined ultrasonic assisted/adsorption method for the removal of malachite green by gold nanoparticles loaded on activated carbon: Experimental design. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 118, 55-65.	2.0	191
7	Comparison of the efficiency of palladium and silver nanoparticles loaded on activated carbon and zinc oxide nanorods loaded on activated carbon as new adsorbents for removal of Congo red from aqueous solution: Kinetic and isotherm study. <i>Materials Science and Engineering C</i> , 2012, 32, 725-734.	3.8	161
8	Emulsification liquid-liquid microextraction based on deep eutectic solvent: An extraction method for the determination of benzene, toluene, ethylbenzene and seven polycyclic aromatic hydrocarbons from water samples. <i>Journal of Chromatography A</i> , 2015, 1425, 25-33.	1.8	152
9	Experimental design based response surface methodology optimization of ultrasonic assisted adsorption of safranin O by tin sulfide nanoparticle loaded on activated carbon. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 122, 223-231.	2.0	145
10	Low-Temperature Growth of Nanocrystalline Mn-Doped ZnS Thin Films Prepared by Chemical Bath Deposition and Optical Properties. <i>Chemistry of Materials</i> , 2009, 21, 2375-2385.	3.2	123
11	Palladium, silver, and zinc oxide nanoparticles loaded on activated carbon as adsorbent for removal of bromophenol red from aqueous solution. <i>Journal of Industrial and Engineering Chemistry</i> , 2013, 19, 1209-1217.	2.9	102
12	Isotherm and kinetics study of malachite green adsorption onto copper nanowires loaded on activated carbon: Artificial neural network modeling and genetic algorithm optimization. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 142, 135-149.	2.0	96
13	Synthesis of nickel sulfide nanoparticles loaded on activated carbon as a novel adsorbent for the competitive removal of Methylene blue and Safranin-O. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 123, 402-409.	2.0	93
14	Determination of methylene blue and sunset yellow in wastewater and food samples using salting-out assisted liquid-liquid extraction. <i>Journal of Industrial and Engineering Chemistry</i> , 2011, 17, 533-536.	2.9	87
15	Cadmium hydroxide nanowire loaded on activated carbon as efficient adsorbent for removal of Bromocresol Green. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 86, 62-68.	2.0	85
16	Cadmium telluride nanoparticles loaded on activated carbon as adsorbent for removal of sunset yellow. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 90, 22-27.	2.0	84
17	Removal of Reactive Orange 12 from aqueous solutions by adsorption on tin sulfide nanoparticle loaded on activated carbon. <i>Journal of Industrial and Engineering Chemistry</i> , 2013, 19, 756-763.	2.9	80
18	Simultaneous ultrasound-assisted removal of sunset yellow and erythrosine by ZnS:Ni nanoparticles loaded on activated carbon: Optimization by central composite design. <i>Ultrasonics Sonochemistry</i> , 2014, 21, 1441-1450.	3.8	77

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19	Comparison of nickel and/or zinc selenide nanoparticle loaded on activated carbon as efficient adsorbents for kinetic and equilibrium study of removal of Arsenazo ($\text{I}^{\text{TM}}\text{I}^{\text{TM}}\text{I}^{\text{TM}}$) dye. Powder Technology, 2013, 245, 217-226.	2.1	74
20	ZnS:Cu nanoparticles loaded on activated carbon as novel adsorbent for kinetic, thermodynamic and isotherm studies of Reactive Orange 12 and Direct yellow 12 adsorption. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 114, 687-694.	2.0	72
21	Characterization of zinc oxide nanorods loaded on activated carbon as cheap and efficient adsorbent for removal of methylene blue. Journal of Industrial and Engineering Chemistry, 2015, 21, 986-993.	2.9	69
22	Diffraction patterns and nonlinear optical properties of gold nanoparticles. Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 366-372.	1.1	67
23	A nanosilver-based spectrophotometry method for sensitive determination of tartrazine in food samples. Food Chemistry, 2013, 138, 1239-1242.	4.2	67
24	Solubility of Quercetin in Water + Methanol and Water + Ethanol from (292.8 to 333.8) K. Journal of Chemical & Engineering Data, 2010, 55, 3934-3936.	1.0	64
25	Competitive adsorption of Direct Yellow 12 and Reactive Orange 12 on ZnS:Mn nanoparticles loaded on activated carbon as novel adsorbent. Journal of Industrial and Engineering Chemistry, 2014, 20, 564-571.	2.9	58
26	Compositional, structural, and optical study of nanocrystalline ZnS thin films prepared by a new chemical bath deposition route. Journal of Alloys and Compounds, 2008, 466, 488-492.	2.8	56
27	Removal of Janus Green dye from aqueous solutions using oxidized multi-walled carbon nanotubes. Toxicological and Environmental Chemistry, 2013, 95, 909-918.	0.6	53
28	Preparation of nanocrystalline Ni doped ZnS thin films by ammonia-free chemical bath deposition method and optical properties. Journal of Luminescence, 2014, 149, 170-175.	1.5	52
29	Non-linear optical properties of silver nanoparticles prepared by hydrogen reduction method. Optics Communications, 2010, 283, 1650-1653.	1.0	50
30	Principal component analysis-artificial neural network and genetic algorithm optimization for removal of reactive orange 12 by copper sulfide nanoparticles-activated carbon. Journal of Industrial and Engineering Chemistry, 2014, 20, 787-795.	2.9	48
31	Modification of Gold Nanoparticle Loaded on Activated Carbon with Bis(4-methoxysalicylaldehyde)-1,2-Phenylenediamine as New Sorbent for Enrichment of Some Metal Ions. Biological Trace Element Research, 2012, 145, 109-117.	1.9	47
32	Comparison of Activated Carbon, Multiwalled Carbon Nanotubes, and Cadmium Hydroxide Nanowire Loaded on Activated Carbon as Adsorbents for Kinetic and Equilibrium Study of Removal of Safranin O. Spectroscopy Letters, 2012, 45, 500-510.	0.5	46
33	Ultrasound assisted microextraction-nano material solid phase dispersion for extraction and determination of thymol and carvacrol in pharmaceutical samples: Experimental design methodology. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2015, 975, 34-39.	1.2	46
34	Application of high order derivative spectrophotometry to resolve the spectra overlap between BG and MB for the simultaneous determination of them: Ruthenium nanoparticle loaded activated carbon as adsorbent. Journal of Industrial and Engineering Chemistry, 2014, 20, 2421-2427.	2.9	45
35	Synthesis and application of ion-imprinted polymer nanoparticles for the extraction and preconcentration of zinc ions. Food Chemistry, 2015, 173, 266-273.	4.2	44
36	Synthesis and characterization of Cadmium selenide nanoparticles loaded on activated carbon and its efficient application for removal of Muroxide from aqueous solution. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2011, 83, 46-51.	2.0	42

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37	Solubility of citric, malonic, and malic acids in different solvents from 303.2 to 333.2K. <i>Fluid Phase Equilibria</i> , 2012, 313, 11-15.	1.4	42
38	Determination of nicotine, anabasine, and cotinine in urine and saliva samples using single-drop microextraction. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2010, 878, 2857-2862.	1.2	39
39	Optimization of combined ultrasonic assisted/tin sulfide nanoparticle loaded on activated carbon removal of erythrosine by response surface methodology. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 21, 459-469.	2.9	39
40	Amperometric detection of hydrogen peroxide at nano-ruthenium oxide/riboflavin nanocomposite-modified glassy carbon electrodes. <i>Electrochimica Acta</i> , 2013, 113, 134-140.	2.6	38
41	Study of removal of Direct Yellow 12 by cadmium oxide nanowires loaded on activated carbon. <i>Materials Science and Engineering C</i> , 2013, 33, 2258-2265.	3.8	36
42	Synthesis and application of ion-imprinted polymer nanoparticles for the determination of nickel ions. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 140, 534-543.	2.0	36
43	Application of experimental design for removal of sunset yellow by copper sulfide nanoparticles loaded on activated carbon. <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 2663-2670.	2.9	35
44	Optical properties of nanocrystalline ZnS:Mn thin films prepared by chemical bath deposition method. <i>Journal of Materials Science: Materials in Electronics</i> , 2013, 24, 260-266.	1.1	34
45	Ultrasonic assisted removal of sunset yellow from aqueous solution by zinc hydroxide nanoparticle loaded activated carbon: Optimized experimental design. <i>Materials Science and Engineering C</i> , 2015, 52, 82-89.	3.8	34
46	Synthesis and characterization of zinc sulfide nanoparticles loaded on activated carbon for the removal of methylene blue. <i>Environmental Progress and Sustainable Energy</i> , 2013, 32, 535-542.	1.3	31
47	AgNPs/QDs@QDs nanocomposites developed as an ultrasensitive impedimetric aptasensor for ractopamine detection. <i>Materials Science and Engineering C</i> , 2020, 108, 110507.	3.8	30
48	Colloidal synthesis of tunably luminescent AgInS-based/ZnS core/shell quantum dots as biocompatible nano-probe for high-contrast fluorescence bioimaging. <i>Materials Science and Engineering C</i> , 2020, 111, 110807.	3.8	29
49	Synthesis and photoluminescence properties of Ru-doped ZnS quantum dots. <i>Journal of Luminescence</i> , 2017, 187, 421-427.	1.5	28
50	Extraction of ultra-traces of lead, chromium and copper using ruthenium nanoparticles loaded on activated carbon and modified with N,N-bis-(1±-methylsalicylidene)-2,2-dimethylpropane-1,3-diamine. <i>Mikrochimica Acta</i> , 2015, 182, 1187-1196.	2.5	27
51	Comparison of removal of bromothymol blue from aqueous solution by multiwalled carbon nanotube and Zn(OH) ₂ nanoparticles loaded on activated carbon: A thermodynamic study. <i>Journal of Industrial and Engineering Chemistry</i> , 2013, 19, 1493-1500.	2.9	26
52	Comparison of the influence of nanomaterials on response properties of copper selective electrodes. <i>Journal of Industrial and Engineering Chemistry</i> , 2013, 19, 1356-1364.	2.9	25
53	Growth of nanocrystalline CuS thin films at room temperature by a facile chemical deposition method. <i>RSC Advances</i> , 2015, 5, 77354-77361.	1.7	25
54	Enhanced electrochemical and electro-optical properties of nematic liquid crystal doped with Ni:ZnCdS/ZnS core/shell quantum dots. <i>Journal of Molecular Liquids</i> , 2020, 320, 114373.	2.3	25

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55	Investigation of the effect of temperature on growth mechanism of nanocrystalline ZnS thin films. <i>Materials Letters</i> , 2008, 62, 4345-4347.	1.3	24
56	Synthesis and optimization of emission characteristics of water-dispersible ag-in-s quantum dots and their bactericidal activity. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 182, 110389.	2.5	24
57	Kinetic and isotherm study of Bromothymol Blue and Methylene blue removal using Au-NP loaded on activated carbon. <i>Desalination and Water Treatment</i> , 2014, 52, 5504-5512.	1.0	23
58	Effect of deposition temperature on structural and optical properties of chemically grown nanocrystalline Ni doped ZnS thin films. <i>Journal of Alloys and Compounds</i> , 2016, 658, 780-787.	2.8	22
59	SnO ₂ nanoparticle-loaded activated carbon for simultaneous removal of Acid Yellow 41 and Sunset Yellow; derivative spectrophotometric, artificial neural network and optimization approach. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 150, 1002-1012.	2.0	21
60	Luminescent, low-toxic and stable gradient-alloyed Fe:ZnSe(S)@ZnSe(S) core:shell quantum dots as a sensitive fluorescent sensor for lead ions. <i>Nanotechnology</i> , 2018, 29, 445602.	1.3	21
61	An investigation on optical characteristics of nanocrystalline ZnS:Ni thin films prepared by chemical deposition method. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 149, 941-948.	2.0	20
62	Aqueous based synthesis of N-acetyl- l -cysteine capped ZnSe nanocrystals with intense blue emission. <i>Optical Materials</i> , 2016, 60, 564-570.	1.7	20
63	Modified carbon paste electrodes for Cu(II) determination. <i>Materials Science and Engineering C</i> , 2012, 32, 2274-2279.	3.8	17
64	Aqueous-based synthesis of Cd-free and highly emissive Fe-doped ZnSe(S)/ZnSe(S) core/shell quantum dots with antibacterial activity. <i>Journal of Colloid and Interface Science</i> , 2018, 529, 520-530.	5.0	17
65	Amberlite IR-120 Modified with 8-Hydroxyquinoline as Efficient Adsorbent for Solid-Phase Extraction and Flame Atomic Absorption Determination of Trace Amounts of Some Metal Ions. <i>Biological Trace Element Research</i> , 2012, 145, 240-247.	1.9	16
66	pH-dependent optical properties of N-acetyl-L-cysteine-capped ZnSe(S) nanocrystals with intense/stable emissions. <i>Journal of Nanoparticle Research</i> , 2017, 19, 1.	0.8	16
67	Preparation of highly emissive and reproducible Cuâ€“Inâ€“S/ZnS core/shell quantum dots with a mid-gap emission character. <i>Journal of Alloys and Compounds</i> , 2020, 824, 153906.	2.8	16
68	An electrochemical tyrosinamide aptasensor using a glassy carbon electrode modified by N-acetyl-l-cysteine-capped Ag-In-S QDs. <i>Materials Science and Engineering C</i> , 2019, 102, 653-660.	3.8	15
69	Multi-colored type-I Ag-doped ZnCdS/ZnS core/shell quantum dots with intense emission. <i>Ceramics International</i> , 2019, 45, 11501-11507.	2.3	15
70	Determination of hippuric acid in biological fluids using single drop liquidâ€“liquid-liquid microextraction. <i>Analytical Methods</i> , 2010, 2, 564.	1.3	14
71	Structural, optical, and electrical properties of thioglycolic acid-capped CdTe quantum dots thin films. <i>International Nano Letters</i> , 2013, 3, 1.	2.3	14
72	A nanosilver-based spectrophotometric method for determination of malachite green in surface water samples. <i>Environmental Monitoring and Assessment</i> , 2013, 185, 5817-5822.	1.3	14

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73	Facile, one-pot and scalable synthesis of highly emissive aqueous-based Ag,Ni:ZnCdS/ZnS core/shell quantum dots with high chemical and optical stability. <i>Nanotechnology</i> , 2017, 28, 475604.	1.3	13
74	Deep eutectic solvent-based emulsification liquid-liquid microextraction coupled with gas chromatography for the determination of thiophenols in water samples. <i>Analytical Methods</i> , 2019, 11, 1663-1670.	1.3	12
75	Determination of β -sitosterol and cholesterol in oils after reverse micelles with Triton X-100 coupled with ultrasound-assisted back-extraction by a water/chloroform binary system prior to gas chromatography with flame ionization detection. <i>Analytica Chimica Acta</i> , 2011, 701, 232-237.	2.6	11
76	Facile "green" synthesis and characterization of CdSe nanoneedles: An alternative to organometallic synthetic routes. <i>Materials Letters</i> , 2012, 68, 153-156.	1.3	11
77	Facile preparation of yellow and red emitting ZnCdSeS quantum dots and their third-order nonlinear optical properties. <i>Journal of Physics and Chemistry of Solids</i> , 2018, 120, 64-70.	1.9	11
78	Rational design of chemical bath deposition technique for successful preparation of Mn-doped CdS nanostructured thin films with controlled optical properties. <i>Ceramics International</i> , 2021, 47, 5523-5533.	2.3	11
79	Nonlinear optical properties of CdTe nanocrystals synthesized by a green room temperature solution method. <i>Applied Physics B: Lasers and Optics</i> , 2015, 118, 567-572.	1.1	10
80	A Highly Sensitive Adsorptive Stripping Voltammetric Method for Simultaneous Determination of Lead and Vanadium in Foodstuffs. <i>Food Analytical Methods</i> , 2012, 5, 272-278.	1.3	9
81	Improved chemical deposition of cobalt-doped CdS nanostructured thin films via nucleation-doping strategy: Surface and optical properties. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 272, 115328.	1.7	9
82	Removal of V(V) ions from aqueous solutions using oxidized multi-walled carbon nanotubes. <i>Journal of Water Supply: Research and Technology - AQUA</i> , 2015, 64, 425-433.	0.6	8
83	Catalysis effect of micro-hydration on the intramolecular proton transfer in cytosine. <i>Chemical Physics Letters</i> , 2015, 629, 1-7.	1.2	8
84	A new catalytic oxidation method for sensitive quantification of bromate in flours and bottled water using AgNPs. <i>Environmental Monitoring and Assessment</i> , 2014, 186, 1371-1375.	1.3	7
85	Facile and versatile preparation of full-color emissive Fe-doped ZnCdSe/ZnS core/shell quantum dots by a novel aqueous-based colloidal approach. <i>Journal of Luminescence</i> , 2019, 205, 525-531.	1.5	7
86	Highly luminescent ZnCdTeS nanocrystals with wide spectral tunability for efficient color-conversion white-light-emitting-diodes. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 505110.	1.3	7
87	Application of Coacervative Microextraction for Extraction of Volatile Compounds in Thymus Essential Oil and Fruit Juices by Gas Chromatography with Flame Ionization Detection. <i>Journal of Essential Oil Research</i> , 2011, 23, 61-69.	1.3	6
88	Spectrophotometry determination of Congo red in river water samples using nanosilver. <i>Toxicological and Environmental Chemistry</i> , 2012, 94, 1886-1892.	0.6	6
89	Room temperature synthesis and characterization of ultralong Cd(OH) ₂ nanowires: a simple and template-free chemical route. <i>Applied Physics A: Materials Science and Processing</i> , 2012, 109, 471-475.	1.1	6
90	Removal of Acid Red 299 dye on gold nanoparticles loaded on activated carbon: kinetic and thermodynamic investigation of the removal process. <i>Desalination and Water Treatment</i> , 2014, 52, 5494-5503.	1.0	6

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91	Preparation of Highly Biocompatible ZnSe Quantum Dots Using a New Source of Acetyl Cysteine as Capping Agent. <i>Journal of Fluorescence</i> , 2017, 27, 1581-1586.	1.3	6
92	Long-time stable colloidal Zn ²⁺ -Ag ⁺ -In ³⁺ -S quantum dots with tunable midgap-involved emission. <i>Journal of Applied Physics</i> , 2021, 129, 063107.	1.1	6
93	Catalytic Oxidation of Indigo Carmine in the Presence of Silver Nanoparticles: Application to Groundwater Analysis. <i>Journal of the Chinese Chemical Society</i> , 2013, 60, 195-198.	0.8	5
94	Optical Dispersion, Permittivity Spectrum and Thermal-Lensing Effect in Nickel-Doped Zinc Sulfide Nanoparticles. <i>Journal of Electronic Materials</i> , 2017, 46, 6473-6479.	1.0	5
95	SYNTHESIS AND CHARACTERIZATION OF CADMIUM SULFIDE NANOPARTICLE-LOADED ACTIVATED CARBON AS A NOVEL ADSORBENT FOR EFFICIENT REMOVAL OF REACTIVE ORANGE 12. <i>Chemical Engineering Communications</i> , 2013, 200, 1071-1088.	1.5	4
96	Physisorption & Chemisorption of Oxygen Molecules on Single- and Multi-walled Carbon Nanotubes. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2014, 22, 434-453.	1.0	4
97	Sensitive nanosilver-based spectrophotometric determination of Brilliant Blue FCF in surface water samples. <i>Water Science and Technology</i> , 2013, 67, 2302-2306.	1.2	3
98	Hydrazine-assisted preparation of ZnS nanocrystals using N-acetyl-L-cysteine as capping agent. <i>Modern Physics Letters B</i> , 2018, 32, 1850254.	1.0	3
99	Sensitive Quantification of Silver Nanoparticles by Kinetic-Spectrophotometry Method in Groundwater Samples. <i>Water, Air, and Soil Pollution</i> , 2012, 223, 3393-3398.	1.1	2
100	Antireflective and nanocolumnar-shaped Mn:ZnO films grown by chemical bath deposition. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2022, 278, 115634.	1.7	2
101	Nonlinear Optical Characterization of CdTe Nano Particles Using Moiré Deflectometry Method. <i>Physics Procedia</i> , 2011, 19, 482-486.	1.2	1
102	Effect of holographic principle and generalized uncertainty principle on the semiclassical Parikh-Wilczek tunneling radiation of black holes. <i>Astrophysics and Space Science</i> , 2012, 339, 323-327.	0.5	1
103	A nanosilver-based spectrophotometric method for sensitive determination of methyl violet in river water. <i>Toxicological and Environmental Chemistry</i> , 2013, 95, 214-220.	0.6	1
104	A new catalytic-spectrophotometry method for sensitive determination of Acid Red 18 in water samples using silver nanoparticles. <i>Main Group Chemistry</i> , 2014, 13, 23-28.	0.4	1
105	A new nanosilver-based spectrophotometric method for monitoring Eriochrome black T in river water. <i>Environmental Monitoring and Assessment</i> , 2013, 185, 7037-7041.	1.3	0
106	Silver nanoparticle-based spectrophotometric method for quantification of Nile blue A in river water. <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 1581-1583.	2.9	0